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Abstract of the Invention

Disclosed are high-strength detachable cylinder-to-plate joints for use in manufacturing tables, shelves, other types of furniture and support structures for machinery and articles of manufacture including shelves and furniture made using present invention joints. The joint comprises a disk with a threaded outside diameter attached to a plate by bolts or screws. A cylinder having an annular end with a threaded inside diameter is attached to the threaded disk to form a threaded connection therewith. The threaded cylinder can comprise a sleeve having a threaded end for attachment to the disk, and an opposite end for attaching an extension member that can have a non-cylindrical diameter (i.e. square table leg).